RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/585,440
Source: IFW
Date Processed by STIC: 7-17-06

ENTERED

IFWP

RAW SEQUENCE LISTING DATE: 07/17/2006
PATENT APPLICATION: **US/10/585,440** TIME: 11:07:33

Input Set : **A:\019957-020210US.txt**
Output Set: **N:\CRF4\07172006\J585440.raw**

```
     4 <110> APPLICANT: Johnson, Karl F.
     5       Bezila, Dan
     6       Ngo, Winnie
     7       Hakes, David
     9 <120> TITLE OF INVENTION: VECTORS FOR RECOMBINANT PROTEIN
    10       EXPRESSION IN E. COLI
    12 <130> FILE REFERENCE: 019957-020210US
C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/585,440
C--> 14 <141> CURRENT FILING DATE: 2006-07-06
    14 <150> PRIOR APPLICATION NUMBER: PCT/US2005/00302
    16 <151> PRIOR FILING DATE: 2005-01-06
    18 <150> PRIOR APPLICATION NUMBER: US 60/535,263
    19 <151> PRIOR FILING DATE: 2004-01-09
    21 <160> NUMBER OF SEQ ID NOS: 13
    23 <170> SOFTWARE: FastSEQ for Windows Version 4.0
    25 <210> SEQ ID NO: 1
    26 <211> LENGTH: 5039
    27 <212> TYPE: DNA
    28 <213> ORGANISM: Artificial Sequence
    30 <220> FEATURE:
    31 <223> OTHER INFORMATION: Custom DNA vector
    33 <400> SEQUENCE: 1
    34 gcatcgtggt gtcacgctcg tcgtttggta tggcttcatt cagctccggt tcccaacgat 60
    35 caaggcgagt tacatgatcc cccatgttgt gcaaaaaagc ggttagctcc ttcggtcctc 120
    36 cgatcggggg gggggggaaa gccacgttgt gtctcaaaat ctctgatgtt acattgcaca 180
    37 agataaaaat atatcatcat gaacaataaa actgtctgct tacataaaca gtaatacaag 240
    38 gggtgttatg agccatattc aacgggaaac gtcttgctcc aggccgcgat taaattccaa 300
    39 catggatgct gatttatatg ggtataaatg ggctcgcgat aatgtcgggc aatcaggtgc 360
    40 gacaatctat cgactgtatg ggaagcccga tgcgccagag ttgtttctga aacatggcaa 420
    41 aggtagcgtt gccaatgatg ttacagatga gatggtcaga ctaaactggc tgacggaatt 480
    42 tatgcctctt ccgaccatca agcattttat ccgtactcct gatgatgcat ggttactcac 540
    43 cactgcgatc cccgggaaaa cagcattcca ggtattagaa gaatatcctg attcaggtga 600
    44 aaatattgtt gatgcgctgg cagtgttcct gcgccggttg cattcgattc ctgtttgtaa 660
    45 ttgtcctttt aacagcgatc gcgtatttcg tctcgctcag gcgcaatcac gaatgaataa 720
    46 cggtttggtt gatgcgagtg attttgatga cgagcgtaat ggctggcctg ttgaacaagt 780
    47 ctggaaagaa atgcataagc tattgccatt ctcaccggat tcagtcgtca ctcatggtga 840
    48 tttctcactt gataacctta tttttgacga ggggaaatta taggttgta ttgatgttgg 900
    49 acgagtcgga atcgcagacc gataccagga tcttgccatc ctatggaact gcctcggtga 960
    50 gttttctcct tcattacaga aacggctttt tcaaaaatat ggtattgata atcctgatat 1020
    51 gaataaattg cagtttcatt tgatgctcga tgagtttttc taaagtacta ctcttccttt 1080
    52 ttcaatatta ttgaagcatt tatcagggtt attgtctcat gagcggatac atatttgaat 1140
    53 gtatttagaa aaataaacaa atagggggttc cgcgcacatt tccccgaaaa gtgccacctg 1200
    54 acgatgaaat tgtaaacgtt aatattttgt taaaattcgc gttaaatttt tgttaaatca 1260
```

RAW SEQUENCE LISTING DATE: 07/17/2006
PATENT APPLICATION: **US/10/585,440** TIME: 11:07:33

Input Set : **A:\019957-020210US.txt**
Output Set: **N:\CRF4\07172006\J585440.raw**

55 gctcattttt taaccaatag gccgaaatcg gcaaaatccc ttataaatca aaagaatagc 1320
56 ccgagatagg gttgagtgtt gttccagttt ggaacaagag tccactatta aagaacgtgg 1380
57 actccaacgt caaagggcga aaaaccgtct atcagggcga tggcccacta cgtgaaccat 1440
58 cacccaaatc aagttttttg gggtcgaggt gccgtaaagc tctaaatcgg aaccctaaag 1500
59 ggagcccccg atttagagct tgacggggaa agccggcgaa cgtggcgaga aaggaaggga 1560
60 agaaagcgaa aggagcgggc gctagggcgc tggcaagtgt agcggtcacg ctgcgcgtaa 1620
61 ccaccacacc cgccgcgctt aatgcgccgc tacagggcgc gtactatggt tgctttgacg 1680
62 catcgtctaa gaaaccatta ttatcatgac attaacctat aaaaataggc gtatcacgag 1740
63 gccctttcgt cttcaagcag atctgaaaaa aaagcccgct cattaggcgg gctcagatct 1800
64 gctcatgttt gacagcttat catcgatgtc gacggtaccg aattcctcga gtctagaaag 1860
65 cttgagctcg gatcccatat gacctcctaa gcatcgatgg atcctgtttc ctgtgtgaaa 1920
66 ttgttatccg ctcacaattc cacacattat acgagccgat gattaattgt caacaggggg 1980
67 atggggagta agctgatcct gtttcctgtg tgaaattgtt atccgctcac aattccacac 2040
68 attatacgag ccgatgatta attgtcaaca gggggatggg gagtaagctc atcgatggat 2100
69 cgatcctgtt tcctgtgtga aattgttatc cgctcacaat tccacacatt atacgagccg 2160
70 gaagcataaa gtgtaaagcc tggggtgcct aatgagtgag ctaacttaca ttaattgcgt 2220
71 tgcgctcact gcccgctttc cagtcgggaa acctgtcgtg ccaggacacc atcgaatggt 2280
72 gcaaaacctt tcgcggtatg gcatgatagc gcccggaaga gagtcaattc agggtggtga 2340
73 atgtgaaacc agtaacgtta tacgatgtcg cagagtatgc cggtgtctct tatcagaccg 2400
74 tttcccgcgt ggtgaaccag gccagccacg tttctgcgaa aacgcgggaa aaagtggaag 2460
75 cggcgatggc ggagctgaat tacattccca accgcgtggc acaacaactg gcgggcaaac 2520
76 agtcgttgct gattggcgtt gccacctcca gtctggccct gcacgcgccg tcgcaaattg 2580
77 tcgcggcgat taaatctcgc gccgatcaac tgggtgccag cgtggtggtg tcgatggtag 2640
78 aacgaagcgg cgtcgaagcc tgtaaagcgg cggtgcacaa tcttctcgcg caacgcgtca 2700
79 gtgggctgat cattaactat ccgctggatg accaggatgc cattgctgtg gaagctgcct 2760
80 gcactaatgt tccggcgtta tttcttgatg tctctgacca gacacccatc aacagtatta 2820
81 ttttctccca tgaagacggt acgcgactgg gcgtggagca tctggtcgca ttgggtcacc 2880
82 agcaaatcgc gctgttagcg ggcccattaa gttctgtctc ggcgcgtctg cgtctggctg 2940
83 gctggcataa atatctcact cgcaatcaaa ttcagccgat agcggaacgg gaaggcgact 3000
84 ggagtgccat gtccggtttt caacaaacca tgcaaatgct gaatgagggc atcgttccca 3060
85 ctgcgatgct ggttgccaac gatcagatgg cgctgggcgc aatgcgcgcc attaccgagt 3120
86 ccgggctgcg cgttggtgcg gatatctcgg tagtgggata cgacgatacc gaagacagct 3180
87 catgttatat cccgccgtta accaccatca aacaggattt tcgcctgctg gggcaaacca 3240
88 gcgtggaccg cttgctgcaa ctctctcagg gccaggcggt gaagggcaat cagctgttgc 3300
89 ccgtctcact ggtgaaaaga aaaaccaccc tggcgcccaa tacgcaaacc gcctctcccc 3360
90 gcgcgttggc cgattcatta atgcagctgg cacgacaggt ttcccgactg gaaagcgggc 3420
91 agtgagcgca acgcaattaa tgtaagttag ctcactcatt aggcacccca ggctttacac 3480
92 tttatgcttc cggctcgtat ggcgtttcgg tgatgacggt gaaaacctct gacacatgca 3540
93 gctcccggag acggtcacag cttgtctgta agcggatgcc gggagcagac aagcccgtca 3600
94 gggcgcgtca gcgggtgttg gcgggtgtcg gggcgcagcc atgacccagt cacgtagcga 3660
95 tagcggagtg tatactggct taactatgcg gcatcagagc agattgtact gagagtgcac 3720
96 cattatgcgg tgtgaaatac cgcacagatg cgtaaggaga aaataccgca tcaggcgctc 3780
97 ttccgcttcc tcgctcactg actcgctgcg ctcggtcgtt cggctgcggc gagcggtatc 3840
98 agctcactca aaggcggtaa tacggttatc cacagaatca ggggataacg caggaaagaa 3900
99 catgtgagca aaaggccagc aaaaggccag gaaccgtaaa aaggccgcgt tgctggcgtt 3960
100 tttccatagg ctccgccccc ctgacgagca tcacaaaaat cgacgctcaa gtcagaggtg 4020
101 gcgaaacccg acaggactat aaagatacca ggcgtttccc cctggaagct ccctcgtgcg 4080
102 ctctcctgtt ccgaccctgc cgcttaccgg atacctgtcc gcctttctcc cttcgggaag 4140
103 cgtggcgctt tctcatagct cacgctgtag gtatctcagt tcggtgtagg tcgttcgctc 4200

RAW SEQUENCE LISTING DATE: 07/17/2006
PATENT APPLICATION: **US/10/585,440** TIME: 11:07:33

Input Set : **A:\019957-020210US.txt**
Output Set: **N:\CRF4\07172006\J585440.raw**

caagctgggc tgtgtgcacg aacccccccgt tcagcccgac cgctgcgcct tatccggtaa 4260
ctatcgtctt gagtccaacc cggtaagaca cgacttatcg ccactggcag cagccactgg 4320
taacaggatt agcagagcga ggtatgtagg cggtgctaca gagttcttga agtggtggcc 4380
taactacggc tacactagaa ggacagtatt tggtatctgc gctctgctga agccagttac 4440
cttcggaaaa agagttggta gctcttgatc cggcaaacaa accaccgctg gtagcggtgg 4500
ttttttgtt tgcaagcagc agattacgcg cagaaaaaaa ggatctcaag aagatccttt 4560
gatcttttct acggggtctg acgctcagtg gaacgaaaac tcacgttaag ggattttggt 4620
catgagatta tcaaaaagga tcttcaccta gatcctttta aattaaaaat gaagttttaa 4680
atcaatctaa agtatatatg agtaaacttg gtctgacagt taccaatgct taatcagtga 4740
ggcacctatc tcagcgatct gtctatttcg ttcatccata gttgcctgac tccccgtcgt 4800
gtagataact acgatacggg agggcttacc atctggcccc agtgctgcaa tgataccgcg 4860
agacccacgc tcaccggctc cagatttatc agcaataaac cagccagccg gaagggccga 4920
gcgcagaagt ggtcctgcaa ctttatccgc ctccatccag tctattaatt gttgccggga 4980
agctagagta agtagttcgc cagttaatag tttgcgcaac gttgttgcca ttgctgcag 5039

<210> SEQ ID NO: 2
<211> LENGTH: 5039
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Custom DNA vector

<400> SEQUENCE: 2
gcatcgtggt gtcacgctcg tcgtttggta tggcttcatt cagctccggt tcccaacgat 60
caaggcgagt tacatgatcc cccatgttgt gcaaaaaagc ggttagctcc ttcggtcctc 120
cgatcggggg ggggggggaaa gccacgttgt gtctcaaaat ctctgatgtt acattgcaca 180
agataaaaat atatcatcat gaacaataaa actgtctgct tacataaaca gtaatacaag 240
gggtgttatg agccatattc aacgggaaac gtcttgctcc aggccgcgat taaattccaa 300
catggatgct gatttatatg ggtataaatg ggctcgcgat aatgtcgggc aatcaggtgc 360
gacaatctat cgactgtatg ggaagcccga tgcgccagag ttgtttctga aacatggcaa 420
aggtagcgtt gccaatgatg ttacagatga gatggtcaga ctaaactggc tgacggaatt 480
tatgcctctt ccgaccatca agcattttat ccgtactcct gatgatgcat ggttactcac 540
cactgcgatc cccgggaaaa cagcattcca ggtattagaa gaatatcctg attcaggtga 600
aaatattgtt gatgcgctgg cagtgttcct gcgccggttg cattcgattc ctgtttgtaa 660
ttgtcctttt aacagcgatc gcgtatttcg tctcgctcag gcgcaatcac gaatgaataa 720
cggtttggtt gatgcgagtg attttgatga cgagcgtaat ggctggcctg ttgaacaagt 780
ctggaaagaa atgcataagc tattgccatt ctcaccggat tcagtcgtca ctcatggtga 840
tttctcactt gataacctta tttttgacga ggggaaatta taggttgta ttgatgttgg 900
acgagtcgga atcgcagacc gataccagga tcttgccatc ctatggaact gcctcggtga 960
gttttctcct tcattacaga aacggctttt tcaaaaatat ggtattgata atcctgatat 1020
gaataaattg cagtttcatt tgatgctcga tgagtttttc taaagtacta ctcttccttt 1080
ttcaatatta ttgaagcatt tatcagggtt attgtctcat gagcggatac atatttgaat 1140
gtatttagaa aaataaacaa atagggggttc cgcgcacatt tccccgaaaa gtgccacctg 1200
acgatgaaat tgtaaacgtt aatattttgt taaaattcgc gttaaatttt tgttaaatca 1260
gctcattttt taaccaatag gccgaaatcg gcaaaatccc ttataaatca aaagaatagc 1320
ccgagatagg gttgagtgtt gttccagttt ggaacaagag tccactatta aagaacgtgg 1380
actccaacgt caaagggcga aaaaccgtct atcagggcga tggcccacta cgtgaaccat 1440
cacccaaatc aagtttttg gggtcgaggt gccgtaaagc tctaaatcgg aaccctaaag 1500
ggagcccccg atttagagct tgacggggaa agccggcgaa cgtggcgaga aaggaaggga 1560
agaaagcgaa aggagcgggc gctagggcgc tggcaagtgt agcggtcacg ctgcgcgtaa 1620
ccaccacacc cgccgcgctt aatgcgccgc tacagggcgc gtactatggt tgctttgacg 1680

RAW SEQUENCE LISTING DATE: 07/17/2006
PATENT APPLICATION: **US/10/585,440** TIME: 11:07:33

Input Set : **A:\019957-020210US.txt**
Output Set: **N:\CRF4\07172006\J585440.raw**

158 catcgtctaa gaaaccatta ttatcatgac attaacctat aaaaataggc gtatcacgag 1740
159 gccctttcgt cttcaagcag atctgaaaaa aaagcccgct cattaggcgg gctcagatct 1800
160 gctcatgttt gacagcttat catcgatgtc gacggtaccg aattcctcga gtctagaaag 1860
161 cttgagctcg gatcccatat gacctcctaa gcatcgatag atcctgtttc ctgtgtgaaa 1920
162 ttgttatccg ctcacaattc cacacattat acgagccgat gattaattgt caacaggggg 1980
163 atggggagta agctgatcct gtttcctgtg tgaaattgtt atccgctcac aattccacac 2040
164 attatacgag ccgatgatta attgtcaaca gggggatggg gagtaagctc atcgatggat 2100
165 cgatcctgtt tcctgtgtga aattgttatc cgctcacaat tccacacatt atacgagccg 2160
166 gaagcataaa gtgtaaagcc tggggtgcct aatgagtgag ctaacttaca ttaattgcgt 2220
167 tgcgctcact gcccgctttc cagtcgggaa acctgtcgtg ccaggacacc atcgaatggt 2280
168 gcaaaacctt tcgcggtatg gcatgatagc gcccggaaga gagtcaattc agggtggtga 2340
169 atgtgaaacc agtaacgtta tacgatgtcg cagagtatgc cggtgtctct tatcagaccg 2400
170 tttcccgcgt ggtgaaccag gccagccacg tttctgcgaa aacgcgggaa aaagtggaag 2460
171 cggcgatggc ggagctgaat tacattccca accgcgtggc acaacaactg gcgggcaaac 2520
172 agtcgttgct gattggcgtt gccacctcca gtctggccct gcacgcgccg tcgcaaattg 2580
173 tcgcggcgat taaatctcgc gccgatcaac tgggtgccag cgtggtggtg tcgatggtag 2640
174 aacgaagcgg cgtcgaagcc tgtaaagcgg cggtgcacaa tcttctcgcg caacgcgtca 2700
175 gtgggctgat cattaactat ccgctggatg accaggatgc cattgctgtg gaagctgcct 2760
176 gcactaatgt tccggcgtta tttcttgatg tctctgacca gacacccatc aacagtatta 2820
177 ttttctccca tgaagacggt acgcgactgg gcgtggagca tctggtcgca ttgggtcacc 2880
178 agcaaatcgc gctgttagcg ggcccattaa gttctgtctc ggcgcgtctg cgtctggctg 2940
179 gctggcataa atatctcact cgcaatcaaa ttcagccgat agcggaacgg gaaggcgact 3000
180 ggagtgccat gtccggtttt caacaaacca tgcaaatgct gaatgagggc atcgttccca 3060
181 ctgcgatgct ggttgccaac gatcagatgg cgctgggcgc aatgcgcgcc attaccgagt 3120
182 ccgggctgcg cgttggtgcg gatatctcgg tagtgggata cgacgatacc gaagacagct 3180
183 catgttatat cccgccgtta accaccatca aacaggattt tcgcctgctg gggcaaacca 3240
184 gcgtggaccg cttgctgcaa ctctctcagg gccaggcggt gaagggcaat cagctgttgc 3300
185 ccgtctcact ggtgaaaaga aaaaccaccc tggcgcccaa tacgcaaacc gcctctcccc 3360
186 gcgcgttggc cgattcatta atgcagctgg cacgacaggt ttcccgactg gaaagcgggc 3420
187 agtgagcgca acgcaattaa tgtaagttag ctcactcatt aggcacccca ggctttacac 3480
188 tttatgcttc cggctcgtat ggcgtttcgg tgatgacggt gaaaacctct gacacatgca 3540
189 gctcccggag acggtcacag cttgtctgta agcggatgcc gggagcagac aagcccgtca 3600
190 gggcgcgtca gcgggtgttg gcgggtgtcg gggcgcagcc atgacccagt cacgtagcga 3660
191 tagcggagtg tatactggct taactatgcg gcatcagagc agattgtact gagagtgcac 3720
192 cattatgcgg tgtgaaatac cgcacagatg cgtaaggaga aaataccgca tcaggcgctc 3780
193 ttccgcttcc tcgctcactg actcgctgcg ctcggtcgtt cggctgcggc gagcggtatc 3840
194 agctcactca aaggcggtaa tacggttatc cacagaatca ggggataacg caggaaagaa 3900
195 catgtgagca aaaggccagc aaaaggccag gaaccgtaaa aaggccgcgt tgctggcgtt 3960
196 tttccatagg ctccgccccc ctgacgagca tcacaaaaat cgacgctcaa gtcagaggtg 4020
197 gcgaaacccg acaggactat aaagatacca ggcgtttccc cctggaagct ccctcgtgcg 4080
198 ctctcctgtt ccgaccctgc cgcttaccgg atacctgtcc gcctttctcc cttcgggaag 4140
199 cgtggcgctt tctcatagct cacgctgtag gtatctcagt tcggtgtagg tcgttcgctc 4200
200 caagctgggc tgtgtgcacg aacccccccgt tcagcccgac cgctgcgcct tatccggtaa 4260
201 ctatcgtctt gagtccaacc cggtaagaca cgacttatcg ccactggcag cagccactgg 4320
202 taacaggatt agcagagcga ggtatgtagg cggtgctaca gagttcttga agtggtggcc 4380
203 taactacggc tacactagaa ggacagtatt tggtatctgc gctctgctga agccagttac 4440
204 cttcggaaaa agagttggta gctcttgatc cggcaaacaa accaccgctg gtagcggtgg 4500
205 ttttttgtgtt tgcaagcagc agattacgcg cagaaaaaaa ggatctcaag aagatccttt 4560
206 gatcttttct acggggtctg acgctcagtg gaacgaaaac tcacgttaag ggattttggt 4620

RAW SEQUENCE LISTING DATE: 07/17/2006
PATENT APPLICATION: **US/10/585,440** TIME: 11:07:33

Input Set : **A:\019957-020210US.txt**
Output Set: **N:\CRF4\07172006\J585440.raw**

207 catgagatta tcaaaaagga tcttcaccta gatcctttta aattaaaaat gaagttttaa 4680
208 atcaatctaa agtatatatg agtaaacttg gtctgacagt taccaatgct taatcagtga 4740
209 ggcacctatc tcagcgatct gtctatttcg ttcatccata gttgcctgac tccccgtcgt 4800
210 gtagataact acgatacggg agggcttacc atctggcccc agtgctgcaa tgataccgcg 4860
211 agacccacgc tcaccggctc cagatttatc agcaataaac cagccagccg gaagggccga 4920
212 gcgcagaagt ggtcctgcaa ctttatccgc ctccatccag tctattaatt gttgccggga 4980
213 agctagagta agtagttcgc cagttaatag tttgcgcaac gttgttgcca ttgctgcag 5039
217 <210> SEQ ID NO: 3
218 <211> LENGTH: 6209
219 <212> TYPE: DNA
220 <213> ORGANISM: Artificial Sequence
222 <220> FEATURE:
223 <223> OTHER INFORMATION: Custom DNA vector
225 <400> SEQUENCE: 3
226 gcatcgtggt gtcacgctcg tcgtttggta tggcttcatt cagctccggt tcccaacgat 60
227 caaggcgagt tacatgatcc cccatgttgt gcaaaaaagc ggttagctcc ttcggtcctc 120
228 cgatcggggg ggggggggaaa gccacgttgt gtctcaaaat ctctgatgtt acattgcaca 180
229 agataaaaat atatcatcat gaacaataaa actgtctgct tacataaaca gtaatacaag 240
230 gggtgttatg agccatattc aacgggaaac gtcttgctcc aggccgcgat taaattccaa 300
231 catggatgct gatttatatg ggtataaatg ggctcgcgat aatgtcgggc aatcaggtgc 360
232 gacaatctat cgactgtatg ggaagcccga tgcgccagag ttgtttctga aacatggcaa 420
233 aggtagcgtt gccaatgatg ttacagatga gatggtcaga ctaaactggc tgacggaatt 480
234 tatgcctctt ccgaccatca agcattttat ccgtactcct gatgatgcat ggttactcac 540
235 cactgcgatc cccgggaaaa cagcattcca ggtattagaa gaatatcctg attcaggtga 600
236 aaatattgtt gatgcgctgg cagtgttcct gcgccggttg cattcgattc ctgtttgtaa 660
237 ttgtcctttt aacagcgatc gcgtatttcg tctcgctcag gcgcaatcac gaatgaataa 720
238 cggtttggtt gatgcgagtg attttgatga cgagcgtaat ggctggcctg ttgaacaagt 780
239 ctggaaagaa atgcataagc tattgccatt ctcaccggat tcagtcgtca ctcatggtga 840
240 tttctcactt gataacctta tttttgacga ggggaaatta taggttgta ttgatgttgg 900
241 acgagtcgga atcgcagacc gataccagga tcttgccatc ctatggaact gcctcggtga 960
242 gttttctcct tcattacaga aacggctttt tcaaaaatat ggtattgata atcctgatat 1020
243 gaataaattg cagtttcatt tgatgctcga tgagtttttc taaagtacta ctcttccttt 1080
244 ttcaatatta ttgaagcatt tatcagggtt attgtctcat gagcggatac atatttgaat 1140
245 gtatttagaa aaataaacaa ataggggttc cgcgcacatt tccccgaaaa gtgccacctg 1200
246 acgatgaaat tgtaaacgtt aatattttgt taaaattcgc gttaaatttt tgttaaatca 1260
247 gctcattttt taaccaatag gccgaaatcg gcaaaatccc ttataaatca aaagaatagc 1320
248 ccgagatagg gttgagtgtt gttccagttt ggaacaagag tccactatta aagaacgtgg 1380
249 actccaacgt caaagggcga aaaaccgtct atcagggcga tggcccacta cgtgaaccat 1440
250 cacccaaatc aagtttttg gggtcgaggt gccgtaaagc tctaaatcgg aaccctaaag 1500
251 ggagcccccg atttagagct tgacggggaa agccggcgaa cgtggcgaga aaggaaggga 1560
252 agaaagcgaa aggagcgggc gctagggcgc tggcaagtgt agcggtcacg ctgcgcgtaa 1620
253 ccaccacacc cgccgcgctt aatgcgccgc tacagggcgc gtactatggt tgctttgacg 1680
254 catcgtctaa gaaaccatta ttatcatgac attaacctat aaaaataggc gtatcacgag 1740
255 gccctttcgt cttcaagcag atctgaaaaa aaagcccgct cattaggcgg gctcagatct 1800
256 gctcatgttt gacagcttat catcgatgtc gacggtaccg aattcctcga gtctagaaag 1860
257 cttgagctcg gatccgaatt ctgaaatcct tccctcgatc ccgaggttgt tgttattgtt 1920
258 attgttgttg ttgttcgagc tcgaattagt ctgcgcgtct ttcagggctt catcgacagt 1980
259 ctgacgaccg ctggcggcgt tgatcaccgc agtacgcacg gcataccaga aagcggacat 2040
260 ctgcgggatg ttcggcatga tttcaccttt ctgggcgttt tccatagtgg cggcaatacg 2100

VERIFICATION SUMMARY DATE: 07/17/2006
PATENT APPLICATION: **US/10/585,440** TIME: 11:07:34

Input Set : **A:\019957-020210US.txt**
Output Set: **N:\CRF4\07172006\J585440.raw**

L:14 M:270 C: Current Application Number differs, Replaced Current Application No
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date